

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/697,995
Source: TFWB
Date Processed by STIC: 10-28-04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 10/28/2004

PATENT APPLICATION: US/10/697,995

TIME: 13:05:23

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\10282004\J697995.raw

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3 <110> APPLICANT: Reilly, Dorothea
4   Yansura, Daniel G.
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INCREASING ANTIBODY PRODUCTION
8 <130> FILE REFERENCE: 11669.195USU1
10 <140> CURRENT APPLICATION NUMBER: US 10/697,995
11 <141> CURRENT FILING DATE: 2003-10-30
13 <150> PRIOR APPLICATION NUMBER: US 60/422,952
14 <151> PRIOR FILING DATE: 2002-10-31
16 <160> NUMBER OF SEQ ID NOS: 37
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 3300
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: anti-TF vector
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29  tcattgctga gttgttattt aagcttgccc aaaaagaaga agagtcgaat 100
31  gaactgtgtg cgcaggtaga agctttggag attatcgtca ctgcaatgct 150
33  tcgcaatatg gcgcaaaatg accaacagcg gttgattgat caggtagagg 200
35  gggcgctgta cgaggtaaag cccgatgccg gcattcctga cgacgatacg 250
37  gagctgctgc gcgattacgt aaagaagtta ttgaagcatc ctcgtcagta 300
39  aaaagttaat cttttcaaca gctgtcataa agttgtcacg gccgagactt 350
41  atagtcgctt tgtttttatt ttttaatgta tttgtaacta gtacgcaagt 400
43  tcacgtaaaa agggatatcta gaattatgaa gaagaatata gcattttctt 450
45  ttgcatctat gttcgttttt tctattgcta caaacgcgta cgctgatata 500
47  cagatgaccc agtccccgag ctccctgtcc gcctctgtgg gcgatagggt 550
49  caccatcacc tgcagagcca gtcgcgacat caagagctat ctgaactggg 600
51  atcaacagaa accaggaaaa gctccgaaag tactgattta ctatgctact 650
53  agtctcgctg aaggagtccc ttctcgcttc tctggatccg gttctggggac 700
55  ggattacact ctgaccatca gcagtctgca gccagaagac ttcgcaactt 750
57  attactgtct tcagcacgga gagtctccat ggacatttgg acagggtacc 800
59  aaggtggaga tcaaacgaac tgtggctgca ccatctgtct tcattctccc 850
61  gccatctgat gagcagttga aatctggaac tgcttctggt gtgtgcctgc 900
63  tgaataactt ctatcccaga gaggccaaag tacagtggaa ggtggataac 950
65  gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa 1000
67  ggacagcacc tacagcctca gcagcaccct gacgctgagc aaagcagact 1050
69  acgagaaaca caaagtctac gcctgcgaag tcacccatca gggcctgagc 1100
71  tcgcccgtca caaagagctt caacagggga gagtgttaat taaatcctct 1150
73  acgccggacg catcgtagcg agctcggtac ccggggatct aggcctaacg 1200
75  ctcggttgcc gccgggctgt ttttattggt gccgacgcgc atctcgaatg 1250
77  aactgtgtgc gcaggtagaa gctttggaga ttatcgtcac tgcaatgctt 1300
79  cgcaatatgg cgcaaaatga ccaacagcgg ttgattgata aggtagaggg 1350

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85  aaagttaatc ttttcaacag ctgtcataaa gttgtcacgg ccgagactta 1500
87  tagtcgcttt gtttttattt tttaatgtat ttgtaactag tacgcaagtt 1550
89  cacgtaaaaa ggggtatctag aattatgaag aagaatatcg catttcttct 1600
91  tgcattctatg ttctgttttt ctattgctac aaacgcgtac gctgaggttc 1650
93  agctgggtgga gtctggcggt ggcctgggtc agccaggggg ctcactccgt 1700
95  ttgtcctgtg cagcttcttg cttcaatatt aaggagtact acatgcactg 1750
97  ggtccgtcag gccccgggta agggcctgga atgggttggg ttgattgac 1800
99  cagagcaagg caacacgatc tatgaccgga agttccagga ccgtgccact 1850
101 ataagcgctg acaattccaa aaacacagca tacctgcaga tgaacagcct 1900
103 gcgtgctgag gacactgccg tctattattg tgctcgagac acggccgctt 1950
105 acttcgacta ctgggggtcaa ggaaccctgg tcaccgtctc ctcgccctcc 2000
107 accaagggcc catcggtctt cccctggga cctcctcca agagcacctc 2050
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111 cggtgacggt gtctggaac tcaggcgccc tgaccagcgg cgtgcacacc 2150
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115 gactgtgccc tctagcagct tgggcaccca gacctacatc tgcaacgtga 2250
117 atcacaagcc cagcaacacc aaggtggaca agaaagtga gcccaaactc 2300
119 tgtgacaaaa ctcacacatg cccaccgtgc ccagcacctg aactcctggg 2350
121 gggaccgtca gtcttctct tcccccaaa acccaaggac accctcatga 2400
123 tctccggag ccttgaggtc acatgcgtgg tgggtggacg gagccacgaa 2450
125 gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa 2500
127 tgccaagaca aagccgcggg aggagcagta caacagcacg taccgtgtgg 2550
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131 aagtgcagg tctccaacaa agccctccca gccccatcg agaaaacat 2650
133 ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 2700
135 catcccgga agagatgacc aagaaccagg tcagcctgac ctgcctggtc 2750
137 aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca 2800
139 gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct 2850
141 ccttcttct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag 2900
143 gggaaacgtc tctcatgctc cgtgatgcat gaggctctgc acaaccacta 2950
145 cacgcagaag agcctctccc tgtctccggg taaataagca tgcgacggcc 3000
147 ctagagtccc taacgctcgg ttgccgcgg gcgtttttta ttgttaactc 3050
149 atgtttgaca gcttatcatc gataagcttt aatgcggtag tttatcacag 3100
151 ttaaattgct aacgcagtca ggcaccgtgt atgaaatcta acaatgcgct 3150
153 catcgtcatc ctcggcaccg tcaccctgga tgctgtaggc ataggtttgg 3200
155 ttatgccggt actgcccggc ctcttgccgg atatcgtcca ttccgacagc 3250
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159 <210> SEQ ID NO: 2
160 <211> LENGTH: 237
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: anti-TF light chain
167 <400> SEQUENCE: 2
168 Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
169 1 5 10 15
171 Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Met Thr Gln Ser

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172          20          25          30
174 Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
175          35          40          45
177 Cys Arg Ala Ser Arg Asp Ile Lys Ser Tyr Leu Asn Trp Tyr Gln
178          50          55          60
180 Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr Tyr Ala Thr
181          65          70          75
183 Ser Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
184          80          85          90
186 Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
187          95         100         105
189 Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly Glu Ser Pro Trp Thr
190         110         115         120
192 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
193         125         130         135
195 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
196         140         145         150
198 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
199         155         160         165
201 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
202         170         175         180
204 Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
205         185         190         195
207 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
208         200         205         210
210 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
211         215         220         225
213 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
214         230         235
216 <210> SEQ ID NO: 3
217 <211> LENGTH: 470
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: anti-TF heavy chain
224 <400> SEQUENCE: 3
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228 Ser Ile Ala Thr Asn Ala Tyr Ala Glu Val Gln Leu Val Glu Ser
229           20           25           30
231 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
232           35           40           45
234 Ala Ala Ser Gly Phe Asn Ile Lys Glu Tyr Tyr Met His Trp Val
235           50           55           60
237 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Leu Ile Asp
238           65           70           75
240 Pro Glu Gln Gly Asn Thr Ile Tyr Asp Pro Lys Phe Gln Asp Arg
241           80           85           90
243 Ala Thr Ile Ser Ala Asp Asn Ser Lys Asn Thr Ala Tyr Leu Gln

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244		95		100		105
246	Met Asn Ser Leu Arg Ala Glu Asp Thr		Ala Val Tyr Tyr Cys Ala			
247		110		115		120
249	Arg Asp Thr Ala Ala Tyr Phe Asp Tyr		Trp Gly Gln Gly Thr Leu			
250		125		130		135
252	Val Thr Val Ser Ser Ala Ser Thr Lys		Gly Pro Ser Val Phe Pro			
253		140		145		150
255	Leu Ala Pro Ser Ser Lys Ser Thr Ser		Gly Gly Thr Ala Ala Leu			
256		155		160		165
258	Gly Cys Leu Val Lys Asp Tyr Phe Pro		Glu Pro Val Thr Val Ser			
259		170		175		180
261	Trp Asn Ser Gly Ala Leu Thr Ser Gly		Val His Thr Phe Pro Ala			
262		185		190		195
264	Val Leu Gln Ser Ser Gly Leu Tyr Ser		Leu Ser Ser Val Val Thr			
265		200		205		210
267	Val Pro Ser Ser Ser Leu Gly Thr Gln		Thr Tyr Ile Cys Asn Val			
268		215		220		225
270	Asn His Lys Pro Ser Asn Thr Lys Val		Asp Lys Lys Val Glu Pro			
271		230		235		240
273	Lys Ser Cys Asp Lys Thr His Thr Cys		Pro Pro Cys Pro Ala Pro			
274		245		250		255
276	Glu Leu Leu Gly Gly Pro Ser Val Phe		Leu Phe Pro Pro Lys Pro			
277		260		265		270
279	Lys Asp Thr Leu Met Ile Ser Arg Thr		Pro Glu Val Thr Cys Val			
280		275		280		285
282	Val Val Asp Val Ser His Glu Asp Pro		Glu Val Lys Phe Asn Trp			
283		290		295		300
285	Tyr Val Asp Gly Val Glu Val His Asn		Ala Lys Thr Lys Pro Arg			
286		305		310		315
288	Glu Glu Gln Tyr Asn Ser Thr Tyr Arg		Val Val Ser Val Leu Thr			
289		320		325		330
291	Val Leu His Gln Asp Trp Leu Asn Gly		Lys Glu Tyr Lys Cys Lys			
292		335		340		345
294	Val Ser Asn Lys Ala Leu Pro Ala Pro		Ile Glu Lys Thr Ile Ser			
295		350		355		360
297	Lys Ala Lys Gly Gln Pro Arg Glu Pro		Gln Val Tyr Thr Leu Pro			
298		365		370		375
300	Pro Ser Arg Glu Glu Met Thr Lys Asn		Gln Val Ser Leu Thr Cys			
301		380		385		390
303	Leu Val Lys Gly Phe Tyr Pro Ser Asp		Ile Ala Val Glu Trp Glu			
304		395		400		405
306	Ser Asn Gly Gln Pro Glu Asn Asn Tyr		Lys Thr Thr Pro Pro Val			
307		410		415		420
309	Leu Asp Ser Asp Gly Ser Phe Phe Leu		Tyr Ser Lys Leu Thr Val			
310		425		430		435
312	Asp Lys Ser Arg Trp Gln Gln Gly Asn		Val Phe Ser Cys Ser Val			
313		440		445		450
315	Met His Glu Ala Leu His Asn His Tyr		Thr Gln Lys Ser Leu Ser			
316		455		460		465

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Input Set : A:\Sequence Listing.txt

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318 Leu Ser Pro Gly Lys

319 470

321 <210> SEQ ID NO: 4

322 <211> LENGTH: 3242

323 <212> TYPE: DNA

324 <213> ORGANISM: Artificial sequence

326 <220> FEATURE:

327 <223> OTHER INFORMATION: Anti-TF vector

329 <400> SEQUENCE: 4

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334 gaactgtgtg cgcaggtaga agctttggag attatcgtea ctgcaatgct 150
336 tcgcaatatg gcgcaaaatg accaacagcg gttgattgat caggtagagg 200
338 gggcgctgta cgaggtaaag cccgatgcca gcattcctga cgacgatacg 250
340 gagctgctgc gcgattacgt aaagaagtta ttgaagcatc ctcgtcagta 300
342 aaaagttaat cttttcaaca gctgtcataa agttgtcacg gccgagactt 350
344 atagtcgctt tgtttttatt ttttaatgta tttgtaacta gtacgcaagt 400
346 tcacgtaaaa agggatatcta gaattatgaa gaaaaacatc gcttttcttc 450
348 ttgcatctat gttcgttttt tctattgcta caaacgcgta cgctgatatac 500
350 cagatgaccc agtccccgag ctccctgtcc gcctctgtgg gcgatagggt 550
352 caccatcacc tgcagagcca gtccgcacat caagagctat ctgaactggg 600
354 atcaacagaa accaggaaaa gtcgcgaaag tactgattta ctatgctact 650
356 agtctcgctg aaggagtccc ttctcgcttc tctggatccg gttctgggac 700
358 ggattacact ctgacatca gcagtctgca gccagaagac ttcgcaactt 750
360 attactgtct tcagcacgga gagtctccat ggacatttgg acagggtacc 800
362 aagggtggaga tcaaacgaac tgtggctgca ccatctgtct tcattctccc 850
364 gccatctgat gagcagttga aatctggaac tgcttctgtt gtgtgcctgc 900
366 tgaataactt ctatcccaga gaggccaaag tacagtggaa ggtggataac 950
368 gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa 1000
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372 acgagaaaca caaagtctac gcctgcgaag tcacccatca gggcctgagc 1100
374 tcgcccgtca caaagagctt caacagggga gagtgttaat taaatcctct 1150
376 acgccggacg catcggtggc agctcggtag ccggggatct aggctaacg 1200
378 ctcggttgcc gccgggctgt ttttattggt gccgacgcgc atctcgaatg 1250
380 aactgtgtgc gcaggtagaa gctttggaga ttatcgtcac tgcaatgctt 1300
382 cgcaatatgg cgcaaaatga ccaacagcgg ttgattgatc aggtagaggg 1350
384 ggcgctgtac gaggtaaagc ccgatgccag cattcctgac gacgatacgg 1400
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388 aaagttaaat ttttcaacag ctgtcataaa gttgtcacgg ccgagactta 1500
390 tagtcgcttt gtttttattt tttaatgtat ttgtaactag tacgcaagtt 1550
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394 tgcattctatg ttctgttttt ctattgctac aaacgcgtac gctgaggttc 1650
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404 ataagcgtg acaattccaa aaacacagca tacctgcaga tgaacagcct 1900
406 gcgtgctgag gacactgccg tctattattg tgctcgagac acggccgctt 1950
408 acttcgacta ctgggggtcaa ggaaccctgg tcaccgtctc ctcggcctcc 2000

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VERIFICATION SUMMARY

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Input Set : A:\Sequence Listing.txt

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